

H.264 4/8/16 Channel DVR Quick Start Guide

Products: BLK-DH200400D, BLK-DH200800D, BLK-DH201600D



PLEASE READ THIS GUIDE BEFORE USING YOUR RECORDER, and always follow the instructions for safety and proper use. Save this guide for future reference.

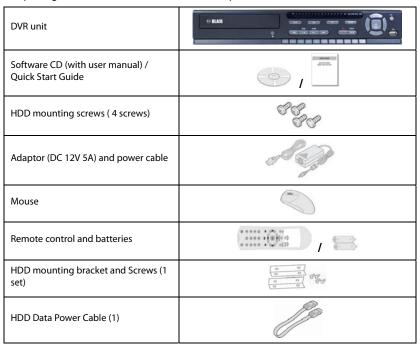
Specifications*

		ITEM		BLK-DH200400D	BLK-DH200800D	BLK-DH201600D
	Input Channel, Input Level		l, Input Level	4/8/16 channel composite video, 1.0 Vp-p, 75Ω		
Video	_	Main Monitor Output		1 VGA (1280 x 1024 @ 60Hz),		
	Output	Spot			2 (Event, Live)	
	Input & Output			4 CH line input & 1 CH line output		
Audio	Audio CODEC			G.711 (ADPCM)		
Alarm	Sensor Input			4ch (NC/NO selectable)		
	Alarm Outp			1 Alarm out by Sensor, Motion and Video Loss		
	Compression			H.264		
	Multi-operation			QUADPLEX (Playback/Record/Network/Backup)		
	Resolution		D1	120 fps	120 fps	120 fps
			Half D1	120 fps	240 fps	240 fps
Record			CIF	120 fps	240 fps	480 fps
	Recording q	uality gr	_	•	•	
	Recording M	, ,		NETWORK, STANDARD, HIGH, SUPERIOR, ULTRA Continuous / Schedule / Motion/ Sensor/ Manual		
	Pre & Post Re		1	Continuous	Yes	
Display	Frame rate (30 fps/channel, 60 fields	
Display	Multi-Decod	-				
Playback	Maiti Deco	9	Single channel	1, 4, 8, 16 × 2, 4, 8, 16		
Tayback	Playback spe	eed	Multi-channels		× 2, 4	
			Capacity of 1 HDD		2TB	
	HDD		Internal HDD		1	
	E-SATA Port		Internatribb			
Storage				1 2/1 (root 1 root)		
	USB Port Backup		USB flash drive	2 (1 front, 1 rear) Video and still image		
			Network			
User I/F	Input metho	nd	Network	Video and still image Front button, remote control mouse, keyboard controller		
03011/1	Input method Console			Front button, remote control, mouse, keyboard controller 1 RS-232C		
Serial port	PTZ and DVI	P kovbos	ard control	1 RS-485		
Jenai port	Termination		ind control	Yes		
	Dynamic DN			Yes (free DDNS)		
Network	,		etwork streaming			
			Levy Ork Sciedining	CIF 120 fps/100 fps		
Network	Web viewer (1:1) Single site monitoring system:			Live, Search, Backup, PTZF Cam Control, Remote Setup Live, Search, Backup, PTZF Cam Control, Remote Setup		
Access	UMS Single Client (1:1) Multi-sites monitoring system: UMS Multi Client (1:n)			Live, Search, Backup, PTZF Cam Control, Remote Setup		
	DLS (Day Light Saving) & NTP			Yes		
				By Alarm, Motion, Video Loss, HDD error		
Features	Internal Beep			Yes (more than 13 languages)		
	Multi-Language 3G mobile smartphone viewer			Yes		
Power	3G mobile smartphone viewer Power Supply Voltage			DC 12V 5A		
Operating te	117 3			41°F – 104°F (5°C – 40°C)		
operating te	•			1	4°F – 122°F (-10°C – +50°C)	
Storage tom						
		/ Gross :	weight	0.041	hs / 13 67 lhs // 1Kgs / 6 2K	as)
Storage tem Weight Dimension	Unit Weight	/ Gross \	weight		lbs. / 13.67 lbs. (4.1Kgs / 6.2K 4" x 2.83" (380mm x 340mm x	

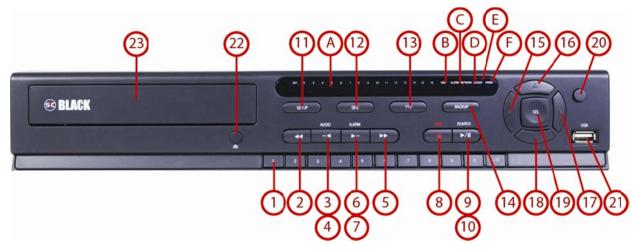
^{*} Specifications and exterior design are subject to change without notice.

Product Components

The package contains the DVR unit and the components shown below.



Front Panel



Front Panel LEDs

NO.	Name	Description	
Α	CH1~16	Indicates that the channel is being recorded.	
В	HDD	Indicates that the system is accessing the hard disk.	
С	ALARM	Indicates that sensor(s) is/are triggered or motion is detected.	
D	NETWORK	Indicates that a network client is connected	
E	BACKUP	Indicates that a USB or DVD-RW device contains stored data	
F	POWER	Indicating that the system is switched on.	

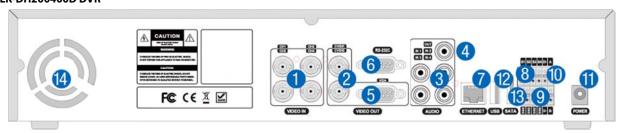
Front Panel Buttons

No.	Name	Description
1	1 2 1 4 5 6 7 8 9 0 +10	Channel keys. For channel 10, press the 0 key. For channel 11, press the +10 and 1 key. For channel 16, press the +10 and 6 key.
2	4	In playback mode, press to rewind the recording.
	AUDIO	Press to select an audio mode:
3		MUTE – Mute all 4 channels.
		SINGLE - Highlighted channel only.
		MIX - Mix all 4 channels.
4	AUDIO	Jump/step backward. In playback mode, the playback position moves 60 seconds backward.
5	F	In playback mode, press to fast forward the recording.
6	ALARM ••••	Press to enable/disable ALARM operation.
7	ALARM 	Jump/step forward. In playback mode, the playback position moves 60 seconds forward.
8	REC	Press to start or stop manual recording.
9	SEARCH >/II	In live display mode, press to open the SEARCH menu.
10	SEARCH >/II	In playback mode, press to play/pause the footage.
11	SETUP	Press to open the SETUP menu.
12	SEQ	Enable/disable the automatic sequence of display of channels in full screen, quad, 9-split display mode.
13	PTZ	Press to control Pan/Tilt/Zoom operations.
14	BACK UP	Press to capture video in jpeg format in live or playback mode.
15	◀ (LEFT)	Press to move left or to change the values in Setup mode. It is also used as the number 4 when entering password.
16	▲ (UP)	Press to move up the menu in Setup mode. It is also used as the number 1 when entering password.
17	► (RIGHT)	Press to move right or to change the values in Setup mode. It is also used as the number 2 when entering password.
18	▼ (DOWN)	Press to move down the menu in Setup mode. It is also used as the number 3 when entering password.
19	(SEL)	Press to select desired menu item or to store the setup value.
20	ESC	Press for temporary storage of the changed value or to return to the previous menu screen.

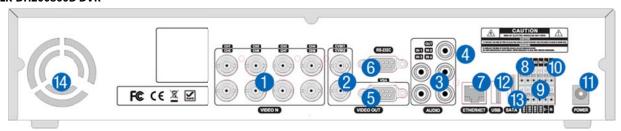
No.	Name	Description
21	USB port	To save a snapshot image or video clip on a USB flash drive, or upgrade firmware with a USB flash drive, first connect the USB flash drive to the USB port.
22	OPEN/CLOSE	Press to open or close the disk tray.
23	DVD drive	To save video, insert a CD-R/DVD-R

Rear Panel

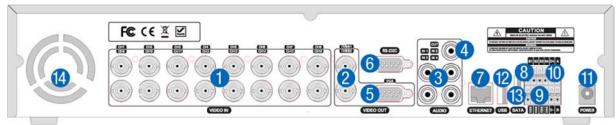
BLK-DH200400D DVR



BLK-DH200800D DVR



BLK-DH201600D DVR



Rear Panel Connectors

No.	Label	Definition
1	VIDEO IN	Video input terminals
2	CVBS OUT	Spot out terminal. Spot out 1: Live view screen. Spot out 2: One channel screen with an event image.
3	AUDIO IN	Four connectors for audio input.
4	AUDIO OUT	One connector for audio output.
5	VGA	VGA (Video Graphics Array) output terminal. Connects to the PC VGA monitor.
6	RS-232C	For engineering use only.
7	ETHERNET	Network terminal
8	SENSOR IN	4 connectors for sensor device connection.
9	ALARM OUT	1 connector for alarm device connection. Provides simple On/Off switching by using relay. (A, B)
10	RS-485	RS-485 control terminal. (D+, D-)
11	POWER	DC12V
12	USB	USB port
13	SATA	External SATA port
14	Cooling fan	

System Installation and Setup

The following steps include the general procedure for installing and setting up your system. For specific instructions on performing any of these steps for the DVR, refer to the user manual provided on the CD with your system.

- 1. Plan your entire installation carefully, considering:
 - Position of the cameras to effectively cover your surveillance targets. Avoid locations and orientations where bright light might shine on or reflect onto the camera lens.
 - Security of the camera, and security of the cabling to the DVR. Is it easy for an intruder to disable the cameras?
 - Location of the DVR. Is it in a secure location? Is the temperature and humidity acceptable?
- 2. Install your cameras in accordance with the manufacturer's instructions.
- 3. Connect the video/audio and power extension cables to the cameras, and route them to the location of the DVR. Note that the video extension cables are usually different at each end; the end with the male power connector attaches to the camera drop cable, the end with the female power connector attaches to the power source and DVR.
- 4. Place the DVR on a clean, flat surface. Do not apply power to the DVR at this time.
 - Plug the USB mouse to the USB port on the DVR.
 - Connect a monitor to the VGA connector on the back of the DVR.
- 5. Connect the video extension cable from each camera to a video port on the back of your DVR.
 - If the camera location has a microphone, also attach the audio cable to an audio input connector on the back of the DVR.
- 6. Attach the power extension cable to the cameras to the recommended power source to power them on.
- 7. Power on the DVR.
 - Connect the power adapter to the DC12V power connector on the back of the DVR.
 - Power on the monitor.
 - Connect the power cable to the power adapter and to a standard 120 VAC outlet. When the DVR is powering on, an initialization window will appear.



8. When the first WELCOME window opens, use the mouse to open the dropdown menu and select the language you prefer to use, then click **Next**. NOTE: You can also change the language setting through the setup menus.



9. In the second WELCOME window, use the mouse to open the dropdown menus and select the date and time. When the correct date and time is shown, click **Next**. NOTE: The date and time setup in the DVR is used to timestamp recorded video. It is very important that this be set correctly if video recordings are used as evidence.



- 10. When the main screen opens, you should see a video image from each camera. Use this image to refine the manual settings of the camera. These settings include the camera direction, and may include focus, zoom, and other settings.
- 11. Right click the mouse anywhere on the DVR screen, or press the **SETUP** button on the front panel to enter the Setup

menu. In the pop-up window, click **Setup**.



12. In the login window, click the virtual keyboard button to open the keyboard window. Use the keyboard to click in the default **ADMIN** password, "1111", then click **OK**. In the LOGIN window, click **OK** again to open the DVR **Setup** menus.



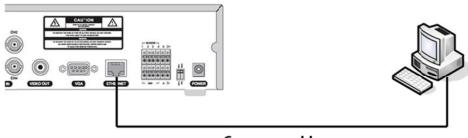
Configure the SETUP menus to customize the DVR settings for your system. Refer to the user manual included on the CD for more information about DVR Setup and system configuration settings.



Network Connections

LAN Connection - Using a crossover cable without a switching hub

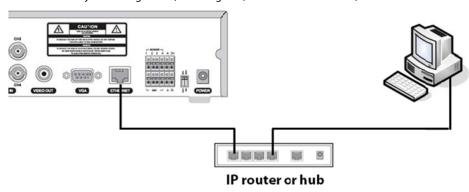
Connect to the system directly using a crossover type network cable.



Crossovercable

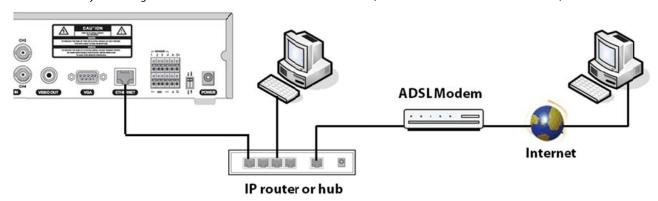
LAN Connection - Using a switching hub

Connect to the system using a hub (switching hub) and an Ethernet cable (10BASE-T/100BASE-TX CAT 5 LAN cable).



Internet (ADSL) Connection

Connect to the system using a router or ADSL modem and an Ethernet cable (10BASE-T/100BASE-TX CAT 5 LAN cable).

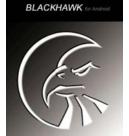


Smartphone Access

When your DVR is configured for access across the Internet, you can remotely monitor and control you video security system over a Wi-Fi or 3G connection using the free smartphone app **Blackhawk**. This app features:

- View from 1 to 16 cameras
- View images in portrait or landscape single channel)
- Monitor multiple locations
- 3G/Wi-Fi compatible

For more information, and to download and install the app, go to:



- Apple[®] iPhone[®], iPod touch[®], or iPad[®]: http://itunes.apple.com/app/blackhawk-for-iphone/id422091119?mt=8
- Android™ phones: http://www.androidzoom.com/android_applications/tools/blackhawk_tlcv.html